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PATENT
12480-000172/US

IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant(s): Toru IDE
Int'l Application No.: PCT/JP2004/013671
Application No.: NEW
Filed: March 17, 2006
For: CURRENT MEASURING DEVICE HAVING ARTIFICIAL
LIPID BILAYER MEMBRANE

INFORMATION DISCLOSURE STATEMENT
(SUBMISSION CONCURRENT WITH THE
FILING OF A NEW PATENT APPLICATION)

Customer Service Window
Randolph Building
401 Dulany Street
Alexandria, VA 22314
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March 17, 2006

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION

The patents, publications, or other information submitted for consideration by the Office are listed on PTO-1449, attached hereto.

II. COPIES

- ☐ Submitted herewith is a legible copy of (i) each U.S. and foreign patent; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed.
- ☒ This application is a National Phase of a PCT application. Some or all of the documents listed on the PTO-1449 are not enclosed because they were cited in the International Search Report and copies should be forwarded from the International Search Authority. If copies are needed, please contact the undersigned.

- ☐ Because the present application is being filed after June 30, 2003, no copies of the U.S. patents or U.S. patent application publications which are listed on the attached Form 1449 are enclosed pursuant to the waiver of 37 C.F.R. § 1.98(a)(2)(i). Any foreign patent documents or non-patent literature listed on the attached Form 1449 are enclosed herewith.

III. CONCISE EXPLANATION OF THE RELEVANCE
(check at least one box)

a. ☐ **DOCUMENTS IN THE ENGLISH LANGUAGE**

Some of the attached patents, publications, or other information in the English language do not require a statement of relevancy.

b. ☒ **DOCUMENTS NOT IN THE ENGLISH LANGUAGE**

A concise explanation of the relevance of all patents, publications, or other information listed that is not in the English language is as follows:

Many of the documents have been discussed in the PCT Search Report, the PCT Preliminary Examination Report, and/or throughout the specification. The PCT Search Report and PCT Preliminary Examination Report, along with a German translation aid translating key terms into English, indicate the degree of relevance found by the PCT Office, thereby satisfying the requirement for a concise explanation. See MPEP 609(A)(3).

c. ☐ **ENGLISH LANGUAGE SEARCH REPORT**

An English language version of the search report or action that indicates the degree of relevance found by the foreign office is attached, thereby satisfying the requirement for a concise explanation. See MPEP 609(A)(3).

d. ☐ **OTHER**

The following additional information is provided for the Examiner's consideration.

Applicants include a German translation aid for translating terminology in the PCT Search Report and Examination Report to thereby satisfy Applicant's requirement for an English language translation thereof.

e. ☐ **EQUIVALENCY DOCUMENTS**

New PCT National Phase Application
Docket No. 12480-000172/US

FEES

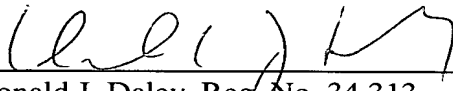
This Information Disclosure Statement is being filed concurrently with the filing of a new patent application; therefore, no fee is required.

If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule and charge the appropriate fee to Deposit Account No. 08-0750.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 08-0750 for any additional fees required under 37 C.F.R. § 1.16 or under § 1.17; particularly, extension of time fees.

Respectfully submitted,

HARNESS, DICKEY & PIERCE, P.L.C.

By: 
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Enclosures:

<input checked="" type="checkbox"/>	Form PTO-1449(s)
<input checked="" type="checkbox"/>	Documents
<input checked="" type="checkbox"/>	International Search Report (PCT/ISA/210 and PCT/ISA/220)
<input checked="" type="checkbox"/>	International Preliminary Examination Report (PCT/IPEA/416 and PCT/IPEA/409)
<input type="checkbox"/>	Fee
<input type="checkbox"/>	Other: <u>German Translation Aid</u>

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)			ATTY DOCKET NO. 12480-000172/US		APPLICATION NO. NEW	
			APPLICANTS Toru IDE		CONF. NO. Unknown	
			FILING DATE March 17, 2006		GROUP Unknown	

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS		(Include Name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.)
		“Stochastic Sensors Inspired By Biology”, H. Bayley & P.S. Cremer, Nature Vol. 413, September 13, 2001, p. 226-230, © 2001 Macmillian Magazines Ltd.
		“Development of an Experimental Apparatus for Simultaneous Observation of Optical and Electrical Signals From Single Ion Channels”, T. Ide, Y. Takeuchi and T. Yanagida, Single Molecules.3 (2002)1, p.33-42, © WILEY-VCH Verlag Berlin GmbH
		Toru Ide et al., “An Artificial Lipid Bilayer Formed On An Agarose-Coated Glass for Simultaneous Electrical And Optical Measurement of Single Ion Channels”, Biochemical and Biophysical Research Communications Vol. 265, No. 2, p. 595-599, © 1999
		A. G. Macdonald et al., “Combined Spectroscopic And Electrical Recording Techniques In Membrane Research: Prospects for Single Channel Studies”, Progress In Biophysics & Molecular Biology Vol. 63, No. 1, p. 1-29, © 1995
EXAMINER		DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.